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IN THE CLAIMS:

Please amend the claims as follows:

- (Currently Amended) A method of broadcasting television-quality programs in real time to a client device in a system comprising a Production Process Center (PPC) (2), a remote service provider computer (3) and a plurality of remote client devices (4) each of which is connected to the service provider computer (3) by way of an uncontended communication channel (5), comprising the production the process center transmitting a television quality program to the remote client device (4) via the remote service provider computer (3), the method further comprises the step of:
- (a) the production process center (2) receiving television program data from a remote television program source;
- (b) the production process center (2) processing the received television program data and converting the television program data into a plurality of digital television program viewing formats;
- (c) transmitting at least one of the television program viewing formats to the remote service provider computer (3) along a <u>first</u> dedicated uncontended <u>dual connectivity</u> connection line (6) interconnecting the production process center (2) and the remote service provider computer (3); and

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- (d) the service provider computer (3) transmitting one television program viewing format to the remote client device (4) over the a second uncontended communication channel (5).
- 2. (Previously Presented) A method as claimed in claim 1 in which the remote service provider computer (3) comprises an Internet Service Provider (ISP) computer and the step of transmitting at least one of the television program viewing formats to the service provider computer (3) comprises transmitting at least one of the television program viewing formats to the ISP computer.
- 3. (Previously Presented) A method as claimed in claim 1 in which the remote service provider computer (3) comprises a mobile communications network service provider computer and the step of transmitting at least one of the television program viewing formats to the service provider computer (3) comprises transmitting at least one television program viewing format to the mobile communications network service provider computer.
- 4. (Previously Presented) A method as claimed in claim 1 in which the remote service provider computer (3) comprises a cable

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network service provider computer and the step of transmitting at least one of the television program viewing formats to the service provider computer (3) comprises transmitting at least one television program viewing format to the cable network operator computer.

5. (Canceled).

- 6. (Currently Amended) A method as claimed in claim 1 in which the step of transmitting at least one television program viewing format to the service provider computer (3) over a dedicated uncontended <u>dual connectivity</u> connection line (6) further comprises transmitting at least one television program viewing format to the service provider computer over a dedicated uncontended satellite link.
- 7. (Previously Presented) A method as claimed in claim 1 in which the step of processing the received television program data further comprises decoding the received television program data into standard Serial Digital Interface (SDI) format.
- 8. (Previously Presented) A method as claimed in claim 1 in which the step of processing the received television program data

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further comprises decoding the received television program data into standard multi format.

9. (Previously Presented) A method as claimed in claim 7 in which the received program data is passed through a multiple signal decoder (13) to decode the received television program data into standard format.

- 10. (Previously Presented) A method as claimed in claim 1 in which the step of processing the received television program data further comprises editing the received television program data.
- 11. (Previously Presented) A method as claimed in claim 10 in which the step of editing the received television program data further comprises inserting advertisement commercials into the received television program data.
- 12. (Previously Presented) A method as claimed in claim 1 in which the step of converting the television program data into a plurality of digital television viewing formats comprises passing the television program data through a multiple encoding station (16).

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13. (Previously Presented) A method as claimed in claim 1 in which the method further comprises the intermediate step of logging the received television program data in production server computer memory for future use.

14. (Previously Presented) A method as claimed in claim 1 in which the method further comprises the intermediate step of storing metadata relating to each piece of received television program data in production server computer memory.

15. (Previously Presented) A method as claimed in claim 1 in which the method further comprises the intermediate step of pre-encoding the television program data before converting the television program data into a plurality of digital television viewing formats.

16. (Currently Amended) A method as claimed in claim 1 in which there is provided a data center computer (23) having data center memory intermediate the production process center (2) and the service provider computer (3) and connected to the production process center (2) and the service provider computer (3) by way of the dedicated uncontended dual connectivity connection line (6),

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said dedicated uncontended dual connectivity line leaving the production process center by two separate distinct points and transferring data to the data center computer (23) by entering the data center computer (23) at two separate and distinct points also, and the television program viewing format transmitted to the remote service provider computer (3) from the production process center (2) is stored in the data center memory, the datacenter computer (23) transmitting the television program viewing format onwards to the remote service provider computer (3).

- 17. (Previously Presented) A method as claimed in claim 16 in which there are a plurality of data center computers (23), each data center computer (23) being connected to at least one other data center computer (23) by way of a back channel multiple cross connect uncontended connection line, the method including the step of each data center (23) sharing a television program viewing format with the data center computer (23) connected thereto over the back channel multiple cross connect uncontended connection line.
- 18. (Previously Presented) A method as claimed in claim 16 in which the data center computer (23) is provided with means to edit

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the television program viewing format and the method further comprises the step of the data center computer editing the television program viewing format received from the production server computer (2).

- 19. (Previously Presented) A method as claimed in claim 18 in which the step of editing the television program viewing format at the datacenter computer (23) further comprises inserting location specific advertisement commercials into the television program viewing format.
- 20. (Previously Presented) A method as claimed in claim 1 in which the method further comprises the initial step of the remote client device (4) selecting a television program viewing format for reception from the remote service provider computer (3).
- 21. (Currently Amended) A method of controlling the transmission of television quality programs to a remote client device (4) by a service provider computer (3), in a system comprising a plurality of remote client devices (4) each connected to the service provider computer (3) by way of an uncontended broadband connection (5), and a remote production process center

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(2) connected to the service provider computer (3), the service provider computer (3) receiving a television quality program from the remote production process center (2) and the service provider computer (3) transmitting the television quality program to the remote client device (4), the method further comprises the steps of:

- (a) the service provider computer (3) receiving television-quality programs from the remote production process center (2) over a <u>first</u> dedicated uncontended <u>dual connectivity</u> connection line (6) inter-connecting the remote production process center (2) and the service provider computer (3) in a plurality of television-quality program viewing formats; and
- (b) on request from one of the remote client devices (4), transmitting one of the television-quality program viewing formats received from the remote production process center (2) to the remote client device (4) over a second the uncontended broadband connection line (5).
- 22. (Currently Amended) A method as claimed in claim 21 in which the <u>method includes an</u> initial step of the remote client device (4) selecting a television-quality program viewing format is <u>performed</u>.

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23. (Previously Presented) A method as claimed in claim 21 in which the service provider computer (3) comprises an internet service provider (ISP) computer and the ISP computer performs the steps of receiving the television-quality programs and transmitting one of the television-quality program viewing formats to the remote client device (4).

- 24. (Previously Presented) A method as claimed in claim 21 in which the service provider computer (3) comprises a mobile communications network service provider computer and the steps of receiving the television-quality programs and transmitting one of the television-quality program viewing formats to the remote client device (4) are performed by the mobile communication network service provider computer.
- 25. (Previously Presented) A method as claimed in claim 21 in which the service provider computer (3) comprises a cable network service provider computer and the cable network service provider computer performs the steps of receiving the television quality programs and transmitting one of the television quality program viewing formats to the remote client device (4).

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26. (Previously Presented) A method as claimed in claim 21 in which the method further comprises the step of inserting advertisement commercials into the television-quality programs by the service provider computer (3) before onward transmission to the remote client device (4).

27. (Previously Presented) A method as claimed in claim 21 in which the method further comprises the step of the service provider computer (3) monitoring television-quality programs sent to a remote client device (4).

28. (Previously Presented) A method as claimed in claim 27 in which the service provider computer (3) generates billing information for a remote client device (4) based on the monitoring of television-quality programs sent to that remote client device (4).

29. (Currently Amended) A method as claimed in claim 21 in which there is further provided a remote data center computer (23) connected to the dedicated uncontended <u>dual connectivity</u> connection line (6) intermediate the service provider computer (3) and the remote production process center (2) and television-quality

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programs are passed through the data center computer (23) en route to the service provider computer (3), said dedicated uncontended dual connectivity line leaving the production process center by two separate distinct points and transferring data to the data center computer (23) by entering the data center computer (23) at two separate and distinct points also.

- 30. (Previously Presented) A method as claimed in claim 29 in which the method comprises the step of inserting advertisement material into the television quality programs by the remote data center computer (23) before onward transmission to the service provider computer (3).
- 31. (Currently Amended) A method of receiving real time television-quality programs in a client device (4), the client device being part of a system comprising a plurality of client devices (4) each connected to a remote service provider computer (3) by way of an uncontended communication link (5), and a remote production process center (2) connected to the remote service provider computer (3) by a dedicated uncontended <u>dual connectivity</u> connection line (6) therebetween, the method comprising the steps of:

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(a) the client device (4) making a television-quality program viewing request to the remote production process center (2) via the remote service provider (3) over the dual connectivity connection line (6); and

(b) receiving at the client device (4) the television-quality program associated with the television quality program viewing request in a suitable television quality program viewing format.

- 32. (Currently Amended) A method as claimed in claim 31 in which the method includes <u>an the</u> initial step of the client device (4) selecting a suitable television quality program viewing format from a plurality of available television quality program viewing formats.
- 33. (Previously Presented) A method as claimed in claim 31 in which the service provider computer (3) is an Internet Service Provider (ISP) computer and the step of making a television quality program viewing request to the remote production process center (2) is made via the ISP computer.

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34. (Previously Presented) A method as claimed in claim 31 in which the service provider computer (3) is a mobile communications network service provider computer and the step of making a television-quality program viewing request to the remote production process center (2) is made via the mobile communications network service provider computer.

- 35. (Previously Presented) A method as claimed in claim 31 in which the service provider computer (3) is a cable network service provider computer and the step of making a television quality program viewing request to the remote production process center (2) is made via the cable network service provider computer.
- 36. (Previously Presented) A method as claimed in claim 31 in which the method further comprises the initial steps of the client device (4) registering with the remote service provider computer as a system user.
- 37. (Currently Amended) A system for broadcasting television-quality programs to a client device (4) comprising a production process center (2), a remote service provider computer (3) and a plurality of remote client devices (4) each connected to

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the remote service provider computer (3) by way of an uncontended communication link (5), the production process center (2) transmitting a television-quality program to the remote client device (4) via the remote service provider computer (3), the system further comprising:

(a) a dedicated uncontended <u>dual connectivity</u> connection line (6) inter-connecting the production process center (2) and the service provider computer (3), the production process center (2) sending the television-quality program to the service provider computer (3) along the dedicated uncontended <u>dual connectivity</u> connection line (6);

and the production process center (2) comprising:

- (b) a receiver for receiving television program data from a remote television program source;
- (c) a processor for processing the received program data and means to convert the television program data into a plurality of digital television viewing formats;
- (d) a transmitter for transmitting the television quality program in at least one of the digital television viewing formats to the service provider computer along the dedicated uncontended dual connectivity connection line.

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- 38. (Previously Presented) A system as claimed in claim 37 in which the remote service provider computer (3) comprises an Internet Service Provider (ISP) computer.
- 39. (Previously Presented) A system as claimed in claim 37 in which the remote service provider computer (3) comprises a mobile communications network service provider computer.
- 40. (Previously Presented) A system as claimed in claim 37 in which the remote service provider computer (3) comprises a cable network service provider computer.
- 41. (Previously Presented) A system as claimed in claim 37 in which the production process center's processor further comprises means to decode a plurality of incoming data formats into a single standard format.
- 42. (Previously Presented) A system as claimed in claim 37 in which the production process center comprises a pre-encoder to pre-encode the television program data.
- 43. (Previously Presented) A system as claimed in claim 37 in which the production process center's means to convert the

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television program data into a plurality of digital television viewing formats comprises a multiple encoding station (16).

- 44. (Previously Presented) A system as claimed in claim 37 in which the production process center (2) has production process center memory and means to log television program data in production process center memory.
- 45. (Previously Presented) A system as claimed in claim 44 in which the production process center has means to store metadata relating to television program data in production process center memory.
 - 46. (Canceled).
- 47. (Previously Presented) A system as claimed in claim 37 in which there is additionally provided a satellite link (21) connecting the production process center (2) and the remote service provider computer (3).
- 48. (Currently Amended) A system as claimed in claim 37 in which there is provided a remote data center computer (23) connected to the dedicated uncontended <u>dual connectivity</u> connection

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line (6) intermediate the production process center (2) and the remote service provider computer (3) acting as an interface between the production process center (2) and the remote service provider computer (3), all data traffic between the production process center (2) and the service provider computer (3) passing through the remote data center, said dedicated uncontended dual connectivity line leaving the production process center by two separate distinct points and transferring data to the data center computer (23) by entering the data center computer (23) at two separate and distinct points also.

- 49. (Previously Presented) A system as claimed in claim 48 in which the remote data center computer further comprises a media server computer having means to receive and transmit television quality programming data.
- 50. (Previously Presented) A system as claimed in claim 48 in which there are a plurality of data centers, each datacenter being connected to at least one other datacenter by way of a multiple back channel cross connect uncontended connection line.
- 51. (Previously Presented) A system as claimed in claim 48 in which there are a plurality of service provider computers located

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adjacent each data center computer (23) and the data center computer (23) controls the flow of television-quality program data to each of the service provider computers (3).

- 52. (Previously Presented) A system as claimed in claim 48 in which the data center computer (23) comprises means to edit television program data received from the production process center (2).
- 53. (Currently Amended) A system for broadcasting remote client television-quality programs to a device (4) comprising a remote production process center (2), a service provider computer (3) and a plurality of remote client devices (4) each connected to the service provider computer (3) by way of an uncontended communication channel (5), the service provider computer (3) receiving a television-quality program from the remote production process center (2) and transmitting television-quality program onwards to a remote client device (4), the system further comprising:
- (a) a dedicated uncontended <u>dual connectivity</u> connection line

 (6) interconnecting the remote production process center (2) and
 the service provider computer (3), the service provider computer

 (3) receiving the television-quality program from the remote

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production process center (2) over the dedicated uncontended <u>dual</u> <u>connectivity</u> connection line (6) in a plurality of television-quality program viewing formats; and

- (b) the service provider computer (3) having a receiver for receiving a television viewing request from a remote client device and a transmitter for transmitting one of the television-quality program viewing formats over <u>an</u> the uncontended connection line (5) to the remote client device.
- 54. (Currently Amended) A system as claimed in claim 53 in which there is provided a remote data center computer (23) connected to the dedicated uncontended <u>dual connectivity</u> connection line (6) intermediate the service provider computer (3) and the remote production process center (2) and television-quality programs are passed through the data center computer (23) en route to the service provider computer (3), said dedicated uncontended <u>dual connectivity line leaving the production process center by two separate distinct points and transferring data to the data center computer (23) by entering the data center computer (23) at two separate and distinct points also.</u>

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55. (Previously Presented) A system as claimed in claim 53 in which the service provider computer (3) is an Internet Service Provider (ISP) computer.

- 56. (Previously Presented) A system as claimed in claim 53 in which the service provider computer (3) is a Mobile Communications Network service provider computer.
- 57. (Previously Presented) A system as claimed in claim 53 in which the service provider computer (3) is a cable network service provider computer.
- 58. (Previously Presented) A system as claimed in claim 53 in which the service provider computer (3) has means to monitor the television viewing requests of each of the remote client devices (4).
- 59. (Previously Presented) A system as claimed in claim 53 in which the service provider computer (3) has means to edit the television quality programs.
- 60. (Currently Amended) A computer readable medium including a computer program comprising program instructions for causing a

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computer to carry out the method steps performed by the production process center (2) in claim 1 of receiving, at a production process center (2), television program data from a remote television program source; processing, by the production process center (2), the received television program data and converting the television program data into a plurality of digital television program viewing formats; transmitting at least one of the television program viewing formats to a remote service provider computer (3) along a first dedicated uncontended dual connectivity connection line (6) interconnecting the production process center (2) and the remote service provider computer (3), one television program viewing format to a remote client device (4) over a second uncontended communication channel (5).

61. (Currently Amended) A computer readable medium including a computer program comprising program instructions for causing a computer to carry out the method steps performed by the service provider computer (3) in claim 21 control transmission of television quality programs to a remote client device (4) by a service provider computer (3), in a system comprising a plurality of remote client devices (4) each connected to the service provider computer (3) by way of an uncontended broadband connection (5), and

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a remote production process center (2) connected to the service provider computer (3), the service provider computer (3) receiving a television quality program from the remote production process center (2) and the service provider computer (3) transmitting the television quality program to the remote client device (4), said service provider computer (3), as instructed by said computer program on said computer readable medium, (a) receiving television-quality programs from the remote production process center (2) over a first dedicated uncontended dual connectivity connection line (6) inter-connecting the remote production process center (2) and the service provider computer (3) in a plurality of television-quality program viewing formats; and (b) on request from one of the remote client devices (4), transmitting one of the television-quality program viewing formats received from the remote production process center (2) to the remote client device (4) over a second uncontended broadband connection line (5).

Claims 62-63 (Canceled).

64. (New) The computer readable medium as set forth in claim 60, wherein said such medium is selected from the group consisting of floppy disc, DVD and CD-ROM.

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65. (New) The computer readable medium as set forth in claim 61, wherein said such medium is selected from the group consisting of floppy disc, DVD and CD-ROM.